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THE THREE MONTH CHOO IS NOT EXTENDED.	communication to file a reply of this application.	complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. N INFORMAL PATENT APPLICATION (PTO-152) which gives reas			
6. CORRECTED DRAWINGS (as "replacement sheets") must be sure (a) including changes required by the Notice of Draftsperson's P 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's American Paper No./Mail Date Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) seach sheet. Replacement sheet(s) should be labeled as such in the head	Patent Drawing Review (PTO- ndment / Comment or in the C should be written on the drawin der according to 37 CFR 1.121(Office action of ngs in the front (not the back) of d).	
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	 Interview Summary Paper No./Mail Da Examiner's Amenda 	te	

DETAILED ACTION

Terminal Disclaimer

The terminal disclaimer filed on October 25, 2004 disclaiming the terminal portion of any patent granted on this application that would extend beyond the expiration date of U.S. Patent 6,707,561 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

Claims 1, 2, 4-7, 10-13, 32-35, 40-42, 45 and 46 are allowed.

The following is an examiner's statement of reasons for allowance:

As to claim 1, the prior art of record, taken alone or in combination, fails to disclose or render obvious a platform comprising an optically transparent substrate having a refractive index (n1), a thin, optically transparent layer, formed on one surface of the substrate, said layer having a refractive index (n2) which is greater than (n1), said platform incorporating therein one or multiple corrugated structures, each comprising substantially parallel periodic grooves which define one or multiple sensing regions, said grooves being configured such that coherent and linearly polarized light incident on said platform is diffracted into individual beams or diffraction orders which interfere resulting in a substantially total extinction of the transmitted beam and an abnormal high reflection of the incident light thereby generating an enhanced evanescent field at the surface of the one or multiple sensing regions; wherein the enhanced evanescent field interacts with luminescent material on or in the vicinity of one or more of the sensing regions so as to produce a luminescent signal, in combination with the rest of the limitations of claim 1.

As to claim 32, the prior art of record, taken alone or in combination, fails to disclose or render obvious an apparatus including:

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a platform including an optically transparent substrate having a refractive index (n1), a thin, optically transparent layer, formed on one surface of the substrate, said layer having a refractive index (n2) which s greater than (n1), said platform incorporating therein one or multiple corrugated structures comprising periodic grooves which define one or multiple sensing regions, said grooves being configured such that either a) coherent light incident on said platform is diffracted into individual beams or diffraction orders which interfere resulting in reduction of the transmitted beam and an abnormal high reflection of the incident light thereby generating an enhanced evanescent field at the surface of the one or multiple sensing regions; or b) coherent and linearly polarized light incident on said platform is diffracted into individual beams or diffraction orders which interfere resulting in almost total extinction of the transmitted beam and an abnormal high reflection of the incident light thereby generating an enhanced evanescent field at the surface of the one or multiple sensing regions, wherein the enhanced evanescent field interacts with luminescent material on or in the vicinity of one or more of the sensing regions so as to produce a detectable luminescent signal, in combination with the rest of the limitations of claim 32.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J Connolly whose telephone number is 571.272.2412. The examiner can normally be reached on 9:00 am - 7:00 pm Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J Toatley, Jr. can be reached on 571.272.2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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